USCMS Engineer Status Report for February 2004

Yujun Wu

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1   Work Performed This Month

1. MDS Investigation

I finished the two phases of study on the MDS interoperability issues of GRIS/GIIS with different schemas and the interoperability of different versions of MDS (MDS 2.2.4, MDS 2.4). The questions raised in the Project Definition were answered. New scripts to update the remote GIIS/GRIS using a secure authentication were developed. Three documents have been written and submitted to the project stakeholders Ian Fisk and Ruth Pordes. A copy has been sent to Alain Roy at VDT team and he has put the document on the VDT web page.

2. VO project

(1). I finished installing compiling and installation of the VOMS server and client after many times of failure; (2). I combined the code with Tanya's code on VOMSConnector; (3). I finished the document on VOMS/VOMS Admin installation as Greg has asked. I also modified the VOMS Admin instructions.

3. DC04—T1 Transfer Agent project (1). Installed new version of Oracle sqlplus 9, worked on comparing the return results of sqlplus from Oracle 8 in the Fermilab UPS. Using the sqlplus to access the Oracle Transfer Management DB at cern instead of using mysql. (2). Learned and installed the RLS client on shahzad. Investigated RLS client from EDG and the version in POOL. (3). Combined Jerry's POOL catalogue code with existing Tier1 TransferAgent; (4). Modified the transfer agent code to reflect updated Transfer Management schema; (5). Debugged and fixed a

LD_LIBRARY_PATH problem in the transfer script. When doing a POOL_1_5_0_env.sh (from DAR?), it unsets all the previously set $LD_LIBRARY_PATH—srmcp, globus commands and sqlplus all can't find some libraries. (6). A piece of script that does the update on CERN EDG RLS has been written. (7). Did some tests to transfer files from CERN SRM EB to Fermilab SRM/dCache system using the transferAgent with help from Ian and Michael. (8). Based on Michael's suggestion, I wrote a new script to do batch transfer with multi-stream using SRM for T1Agent. I still need debug and try it before actual using it.

4. Configuration monitoring (1). I finished the configuration monitoring paper for ACAT03, which was due by February 14; (2). Some time was spent to collect the variables and use cases for the next phase of configuration monitoring tool;

2   Status of Deliverables

1. DC04 (1). An improved version of T1 Transfer Agent Script will be implemented and be used for the DC04 data transfer from CERN Export Buffer to Fermilab dCache/Enstore. (2). Other needed implementation/installation for DC04;

2. Configuration monitoring second phase study (1). A document should be written on the use cases/variables of the configuration monitoring tool if time permit (DC04 has higher priority);

3   Plans For Next Month

1. DC04 Top priority will be given to the DC04 tasks. Any related work will be done as needed in this project.

2. Configuration monitoring tool Continue to collect use cases/variables on configuration monitoring tool, deliver a document if time permit.

3. Work on the MySQL authentication access using certificate instead of passwd with Jerry as asked by Greg.

4   Longer Term Plans

None. Need talk with the management.

5   Resources Needed

None.

6   Links To Supporting Documentation

- 1. MDS Interoperability document:

- http://www.lsc-group.phys.uwm.edu/vdt/documents/mds_2.2_vs_2.4_summary.pdf

- http://www.lsc-group.phys.uwm.edu/vdt/documents/mds_2.2_vs_2.4_details.pdf

- http://www.lsc-group.phys.uwm.edu/vdt/documents/mds_2.2_vs_2.4_schema.pdf

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- 2. ACAT03 paper

- http://home.fnal.gov/ yujun/monitor/acat03_paper0098.ps

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